(No Model.)

G. H. PERKINS.

BOX FOR FILLING CANS WITH OIL OR OTHER LIQUIDS.

No. 383,979. Patented June 5, 1888.

Fig 2

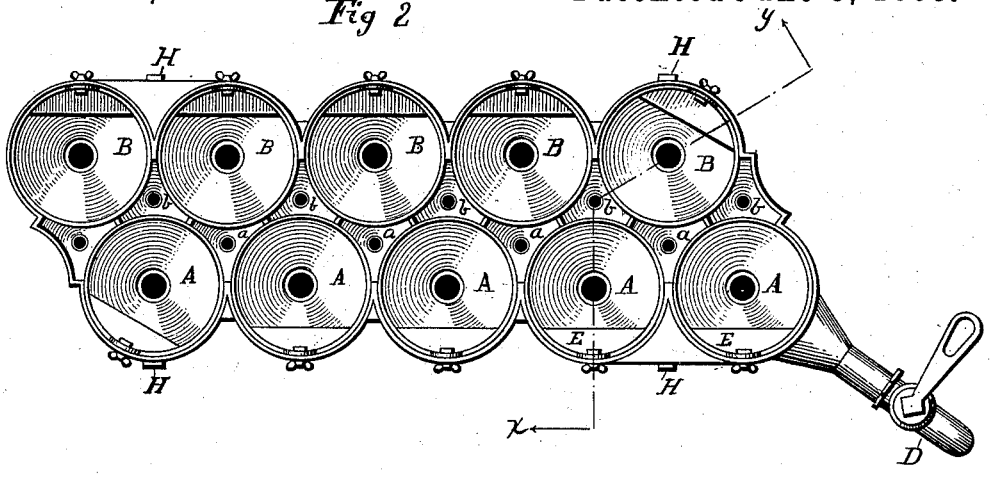


Fig 1

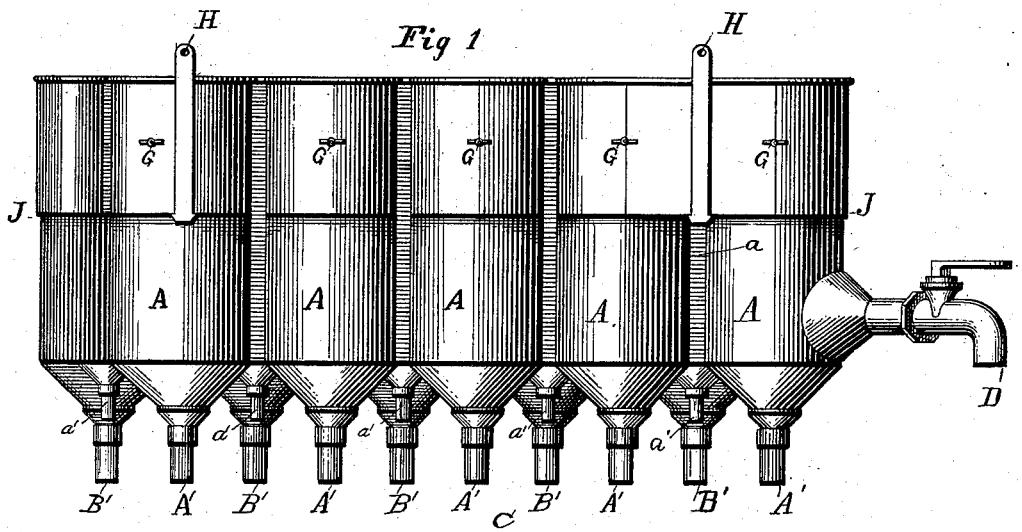
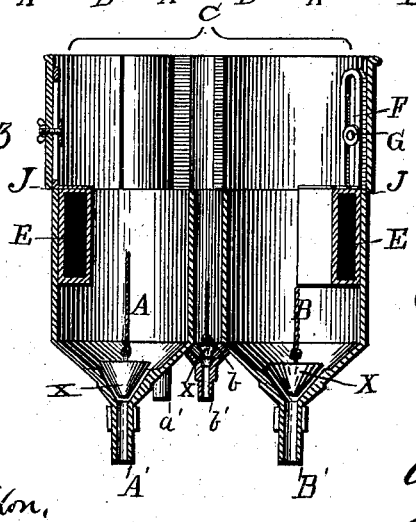


Fig 3



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UNITED STATES PATENT OFFICE.

GEORGE H. PERKINS, OF PHILADELPHIA, PENNSYLVANIA.

BOX FOR FILLING CANS WITH OIL OR OTHER LIQUID.

SPECIFICATION forming part of Letters Patent No. 383,979, dated June 5, 1888.

Application filed July 25, 1887. Serial No. 245,158. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. PERKINS, a citizen of the United States, residing in the city and county of Philadelphia and State of Pennsylvania, have invented an Improvement in Boxes for Filling Cans with Oil or other Liquids, of which the following is a specification.

In the use of devices heretofore employed for filling cans with crude petroleum, or other liquids which foam when poured, difficulty has been experienced by reason of the foaming of the oil and the overflowing of the cans into which the oil from the filling boxes has been fed. The foaming of the oil, and the consequent overflowing of the cans, has resulted in the cans containing too little oil and has also frequently resulted in explosions and conflagrations by reason not only of the overflowing oil coming into contact with fire, but by reason also of the presence of petroleum vapor or mist around and about the filled cans and in the compartment in which the operation of closing the cans by heated soldering irons has been conducted.

To obviate the difficulties above referred to is the purpose of my invention, and it consists as hereinafter described and specifically claimed.

In the drawings, Figure 1 is a longitudinal elevation of a filling box embodying my invention, Fig. 2 a plan view of the device shown in Fig. 1 and Fig. 3 a sectional elevation upon the line *x y* of Fig. 2.

My device consists essentially of two series, A A A and B B B, of adjacent compartments of a given size, together with two other series, *a a a* and *b b b*, of a like number of smaller sized adjacent compartments of a given size. Each of the compartments of each of these series, at their lower ends, being provided with outlets A′ B′ and *a′ b′*. The compartments of all of said series, at their upper ends, terminate at the line J J, in a compartment C common to all of them.

D is a faucet by which the filling box may be emptied of any excess of oil which has been fed to it above the line J J of the tops of the compartments.

H H are hooks by which said box may be suspended and supported.

E E are displacing blocks provided at their upper ends with slotted handles F, which, by means of thumb nuts and bolts G, may be vertically adjusted so as to, at will, regulate, within certain predetermined limits, the content capacity of each of the compartments in which they are located.

The apparaus described provides a filling box from which, when properly filled, the oil foam cannot overflow, and it further provides a filling box which, when its compartments are connected by proper pipes or conduits with the cans to be filled, may be employed in such manner to fill said cans as that foaming or overflowing of the oil through the can orifice will not occur.

The manner of using this apparatus for filling cans, so as to obtain the results described, is to first draw the oil from a series of compartments, for example from the compartments A A into a series of a like number of cans, this operation being conducted rapidly, as is permitted by the size of said compartments and of the outlets with which they are provided, and then to slowly, and without causing a foaming of the oil, to draw from a series of compartments, the content capacity of each of which is equal to the unfilled space of the partially filled can, sufficient oil to complete the filling of said cans, that is to say, the five compartments of the series A A are rapidly fed to five cans to be filled, and then the contents of the five compartments of the series *a* are slowly fed to the same series of cans; in the same manner the compartments B B and *b b* are successively emptied into another series of cans.

The outlets of the respective compartments of the filling box shown in the drawings may be provided with a valve X, such as is shown in Fig. 3, which valve may be operated in any suitable manner to open or close the outlets of said compartments.

It is proper to state that the improved method of filling cans with petroleum which the filling box hereinbefore described is adapted to carry out, forms the subject of a separate application for Letters Patent filed by me in the United States Patent Office upon the 7th day of February, 1888, as Serial No. 263,236.

Having thus described my invention, I claim—

1. A box for filling cans with oil, or with other liquids, provided with one or more series of adjacent compartments of a given size, and with a like number of series of a like number of smaller adjacent compartments of a given size, each of said compartments, of each of said series, having, at its lower end, an outlet for permitting the escape of the oil from said compartment to a can, said compartments, at their upper ends, being provided with a compartment common to the compartments of all of said series, as and for the purpose specified.

2. A box for filling cans with oil, or with other liquids, provided with one or more series of adjoining compartments of a given size, and with a like number of series of a like number of smaller adjoining compartments of a given size, each of said compartments, of each of said series, having, at its lower end, an outlet for permitting the escape of the oil from each of said compartments to a can, said compartments at their upper ends being provided with a compartment common to all the compartments of all of said series, in combination with vertically adjustable displacing blocks, as specified.

In testimony whereof I have hereunto signed my name this 15th day of July, A. D. 1887.

GEORGE H. PERKINS.

In presence of—
WM. C. STRAWBRIDGE,
J. BONSALL TAYLOR.